



PHYS 102 – General Physics II Final Exam Solutions

Duration: 150 minutes

Friday, 18 May 2018, 09:00



1. A conducting sphere of radius R has a total charge Q .

(a) (8 Pts.) Find the potential $V(r)$ for $0 < r < R$, and $R < r < \infty$.

(b) (5 Pts.) What is the infinitesimal increase dU in electric potential energy if an infinitesimal charge dQ is transferred from ∞ to the surface of the sphere?

(c) (7 Pts.) What is the total potential energy of the conducting sphere of radius R with total charge Q ?

Solution:

(a) Since the sphere is conducting, all charge is distributed uniformly on the surface. Using Gauss's law, we first find the electric field.



$$\text{For } r < R \quad Q_{\text{enc}} = 0 \rightarrow E = 0.$$

$$\text{For } r > R \quad Q_{\text{enc}} = Q \rightarrow \oint \vec{E} \cdot d\vec{A} = E(4\pi r^2) = \frac{Q}{\epsilon_0} \rightarrow \vec{E} = \frac{Q}{4\pi\epsilon_0 r^2} \hat{r}$$

As $r \rightarrow \infty$ $V(r) \rightarrow 0$ So for $r > R$, we have

$$V(r) = -\int_{\infty}^r \frac{Q}{4\pi\epsilon_0 r'^2} dr' = \frac{Q}{4\pi\epsilon_0 r}, \quad r > R$$

$$\text{For } r < R \text{ we have } E = 0 \rightarrow V(r) = V(R) = \frac{Q}{4\pi\epsilon_0 R}, \quad r \leq R.$$

(b) The infinitesimal increase in electric potential energy dU if an infinitesimal charge dq is transferred from ∞ to the surface of the sphere is

$$dU = dQ[V(R) - V(\infty)] = \frac{QdQ}{4\pi\epsilon_0 R} \quad \text{✗}$$

This is equal to the work to be done to bring the charge dQ from infinity and put it on the sphere with a total charge Q . Note that if $Q = 0$ then $W = 0$.

(c) Therefore, the total potential energy of the conducting sphere of radius R with total charge Q is

$$W(Q) = \int_0^Q \frac{q dq}{4\pi\epsilon_0 R} = \frac{Q^2}{8\pi\epsilon_0 R}.$$

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neonatal crash cart supply equipment checklist broselow - Nov 07 2022

web if the crash cart is organized correctly the caregiver simply opens the drawer of the corresponding color and will find the appropriate sizes of equipment and medications organization of this type helps to save time and prevent mistakes the following lists show complete content listing for broselow colorcode carts

2020 acs emergency crash cart card amazon com - Oct 06 2022

web jan 1 2021 2020 acs emergency crash cart card cards january 1 2021 the aha s acs emergency crash cart cards have been updated to reflect new science in the 2020 american heart association guidelines update for cpr and emergency cardiovascular care 2020 aha guidelines for cpr and ecc

article outpatient surgery magazine - Mar 31 2022

web oct 10 2007 important meds the crash cart s top drawer typically contains reversal agents and drugs for blood pressure support and cardiac stimulation each vial should be clearly labeled and grouped according to action for quick and easy access here s a basic rundown of some key drugs a complete list of suggested drugs is provided by the